

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P321902

Luminaire Tested: **GAN-SA8D-730-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321902
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40286 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

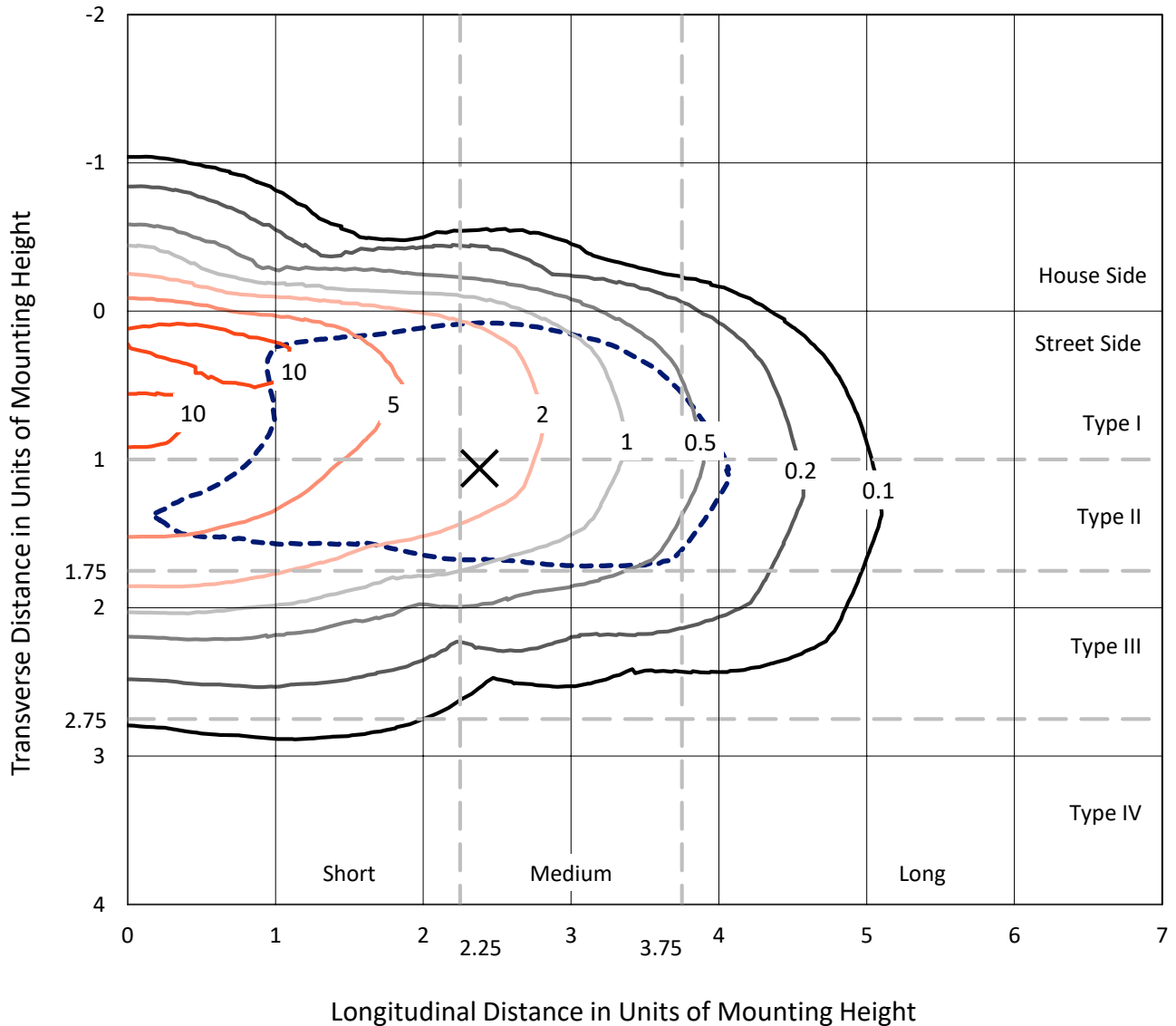
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

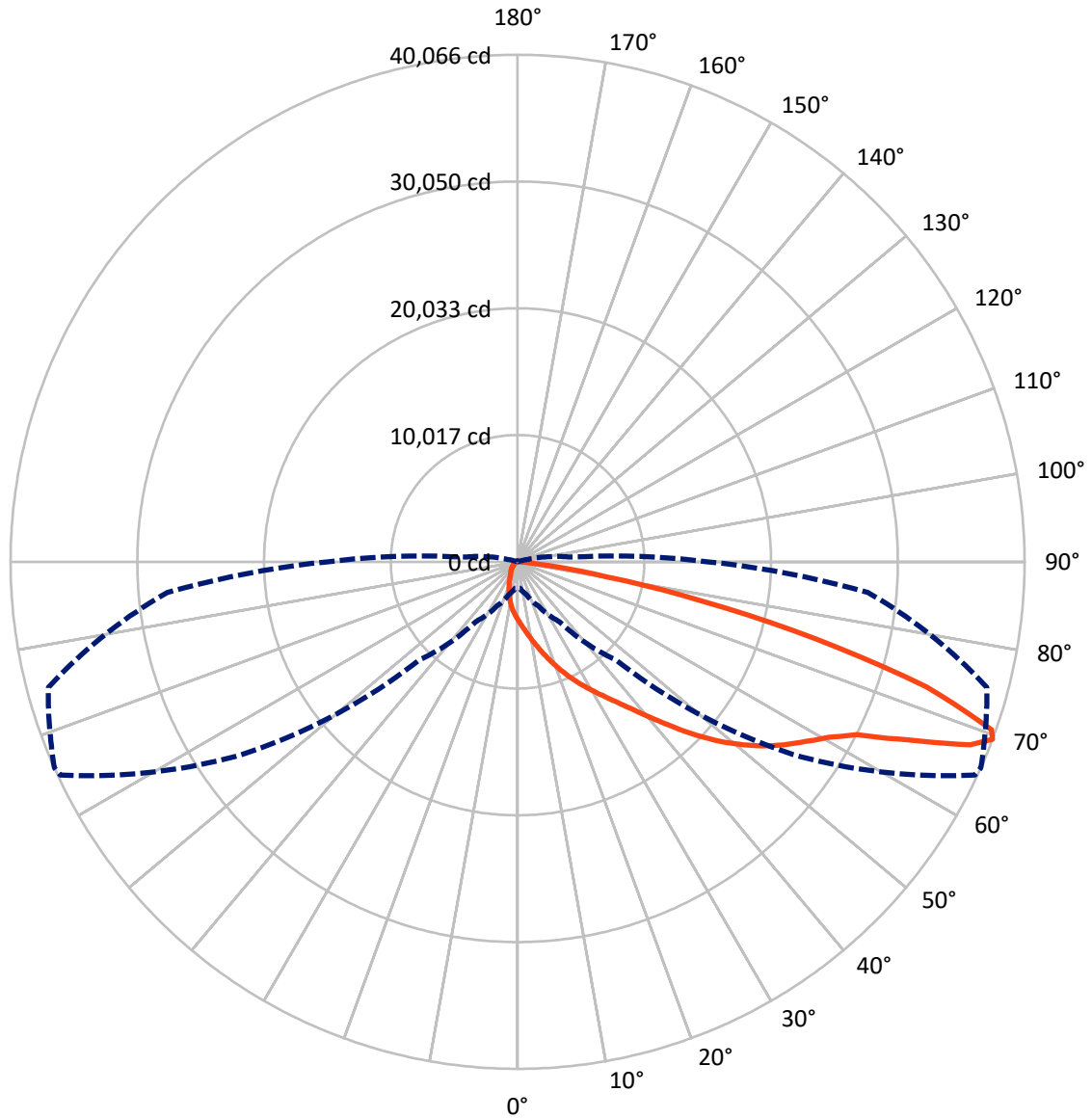
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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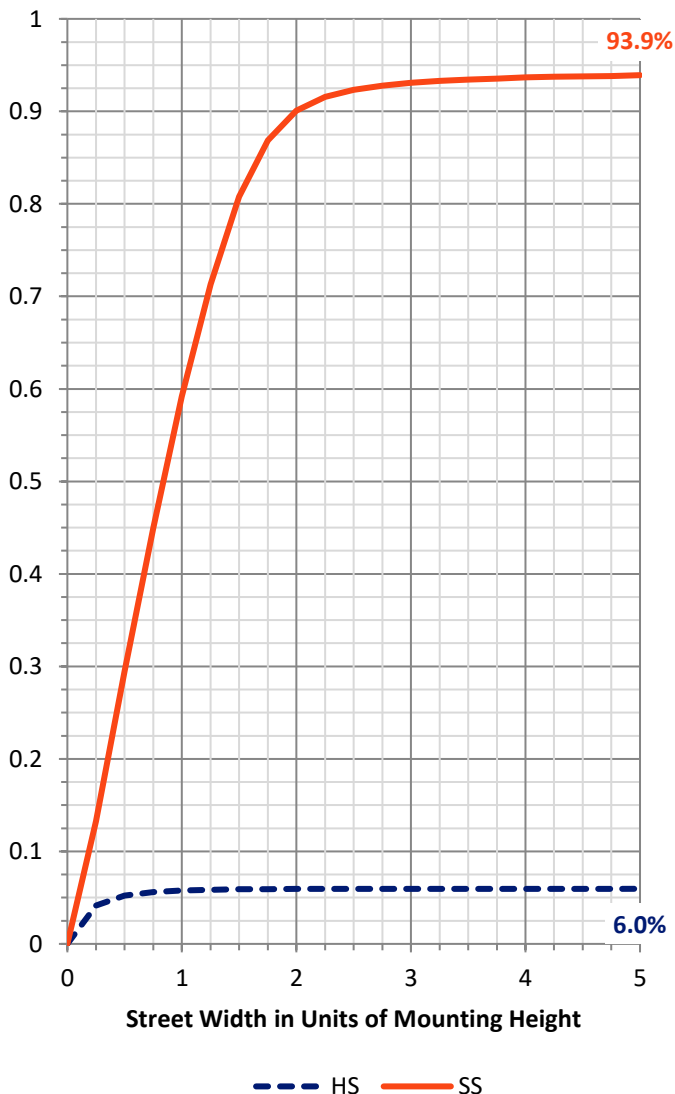
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2416.6	0.0	2416.6
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	37869.4	0.0	37869.4
	% Fixture	94.0	0.0	94.0
Total	Lumens	40286.0	0.0	40286.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.2	1.1
10°-20°	1319.0	3.3
20°-30°	2296.8	5.7
30°-40°	4029.7	10.0
40°-50°	6745.1	16.7
50°-60°	9914.7	24.6
60°-70°	10179.8	25.3
70°-80°	5025.5	12.5
80°-90°	332.3	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	40286.0	100.0
0°-180°	40286.0	100.0

Coefficient of Utilization

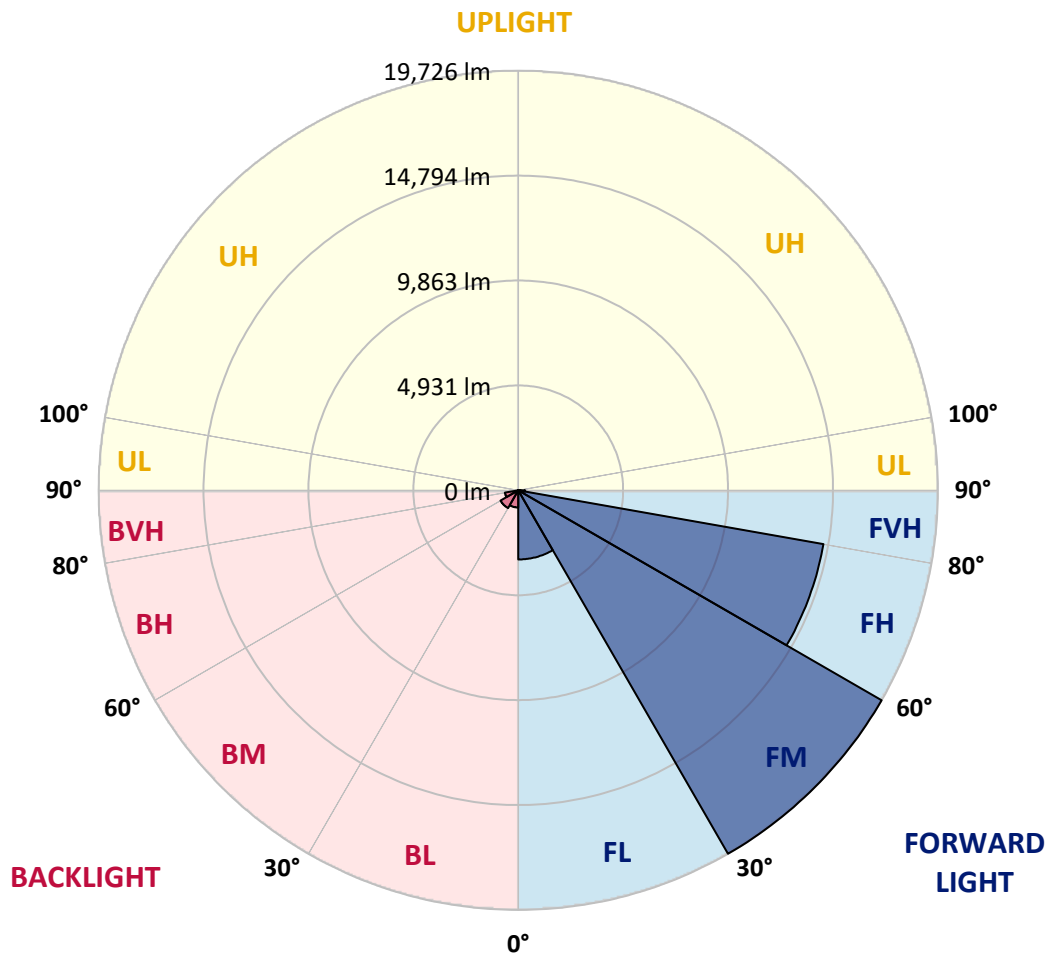


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3250.7	8.1			
FM (30°-60°)	19725.9	49.0			
FH (60°-80°)	14568.5	36.2			G5
FVH (80°-90°)	324.3	0.8			G3/500
BL (0°-30°)	808.2	2.0	B2/1000		
BM (30°-60°)	963.5	2.4	B1/1000		
BH (60°-80°)	636.9	1.6	B2/1000		G2/1000
BVH (80°-90°)	8.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4584.7	4584.7	4584.7	4584.7	4584.7	4584.7	4584.7	4584.7	4584.7	4584.7	4584.7
2.5°	5396.0	5373.0	5363.5	5321.4	5248.7	5193.2	5086.0	4961.6	4938.7	4818.1	4670.8
5°	6096.3	6077.2	6063.8	6004.5	5929.8	5790.2	5595.0	5363.5	5319.4	5089.8	4795.2
7.5°	6584.3	6618.7	6618.7	6580.4	6486.7	6381.4	6142.2	5826.5	5771.0	5418.9	4961.6
10°	6869.4	6911.5	6944.0	6976.5	6963.1	6921.0	6695.2	6339.3	6272.4	5805.5	5154.9
12.5°	6896.1	6938.2	7030.1	7165.9	7298.0	7393.7	7252.1	6907.6	6831.1	6253.2	5384.5
15°	6746.9	6790.9	6932.5	7196.6	7516.1	7795.5	7841.4	7537.2	7458.7	6787.1	5671.5
17.5°	6486.7	6515.4	6718.2	7083.7	7585.0	8097.8	8375.3	8212.6	8139.9	7397.5	5991.1
20°	6293.4	6314.5	6492.4	6884.7	7542.9	8287.2	8880.4	8930.2	8853.6	8051.9	6337.4
22.5°	6624.4	6662.7	6668.4	6854.1	7428.1	8381.0	9324.3	9636.2	9578.8	8746.5	6678.0
25°	7529.5	7573.5	7428.1	7313.3	7525.7	8423.1	9705.1	10359.5	10313.6	9494.6	7020.5
27.5°	8725.4	8771.4	8583.8	8241.3	8036.6	8581.9	10043.8	11094.3	11092.4	10286.8	7389.8
30°	9900.3	9946.2	9754.9	9412.4	8941.6	9031.6	10336.6	11863.5	11875.0	11103.9	7782.1
32.5°	11132.6	11190.0	10992.9	10552.8	10061.0	9808.5	10748.0	12636.6	12701.6	12051.0	8224.1
35°	12533.2	12540.9	12263.4	11802.3	11235.9	10847.5	11408.1	13503.4	13658.4	13224.0	8784.7
37.5°	13907.1	13962.6	13734.9	13007.8	12487.3	12047.2	12389.7	14586.4	14806.4	14657.2	9517.6
40°	14925.1	15041.8	15009.3	14224.7	13731.1	13417.3	13608.6	15874.2	16153.5	16325.7	10441.8
42.5°	15564.2	15652.2	15801.4	15328.8	14881.1	14932.7	15047.5	17374.3	17718.7	18227.7	11503.8
45°	16297.0	16339.1	16463.5	16254.9	15952.6	16473.1	16574.5	19063.9	19425.6	20273.2	12682.5
47.5°	17192.5	17292.0	17326.5	17135.1	16997.4	17835.5	18045.9	20600.4	21107.5	22464.1	13930.1
50°	18333.0	18359.8	18419.1	18294.7	18156.9	19006.5	19366.2	22213.5	22674.6	24662.7	15160.4
52.5°	19448.5	19544.2	19750.8	19672.4	19616.9	20003.4	20543.0	23667.7	24182.4	26495.8	16388.9
55°	19770.0	19852.3	20566.0	21053.9	21505.5	21231.9	21668.1	24970.8	25527.6	28133.8	17571.4
57.5°	18486.0	18652.5	19888.6	21159.2	23032.4	23141.5	23214.2	26308.3	26807.7	29389.0	18801.8
60°	15240.8	15273.3	17301.6	19481.0	22779.9	24808.1	25472.1	27745.3	28164.4	30558.1	20275.1
62.5°	9693.6	10024.7	12250.0	15326.9	20108.7	24567.1	28202.6	29919.0	30072.1	31960.7	22387.6
65°	4617.2	4831.5	6435.0	9469.8	14565.3	21480.6	30087.4	33851.2	33920.1	34741.0	25210.0
67.5°	2556.4	2659.7	3423.2	5097.5	8514.9	15191.0	29325.9	38508.6	38573.7	37580.6	27686.0
69°	1999.6	2087.6	2688.4	3842.2	5772.9	10918.3	26537.9	39872.9	40066.2	38393.8	27774.0
70°	1697.2	1783.4	2315.3	3245.2	4642.1	8436.5	23621.8	39534.2	39739.0	38317.3	27117.7
72.5°	1039.0	1088.8	1542.3	2284.7	3111.3	4244.1	14567.3	33434.1	33780.4	35148.5	23306.1
75°	700.3	727.1	964.4	1576.7	2225.4	2185.2	7567.8	23566.3	24316.4	27341.6	17213.6
77.5°	501.3	526.2	646.8	1019.9	1559.5	1442.8	3427.0	14645.7	14806.4	16398.4	9387.5
80°	285.1	308.1	457.3	606.6	1058.1	962.5	1362.4	6995.6	7076.0	7032.0	3134.3
82.5°	149.3	168.4	250.7	399.9	679.3	629.5	566.4	2342.1	2353.6	1957.5	686.9
85°	28.7	34.4	124.4	273.6	350.2	273.6	231.5	549.2	560.6	495.6	170.3
87.5°	0.0	1.9	49.8	61.2	68.9	70.8	74.6	107.2	114.8	155.0	45.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4584.7	4584.7	4584.7	4584.7	4584.7	4584.7	4584.7	4584.7	4584.7	4584.7	4584.7
2.5°	4605.7	4536.8	4404.8	4251.7	4133.1	4016.4	3924.5	3828.9	3794.4	3777.2	3775.3
5°	4651.6	4506.2	4226.9	3939.8	3704.5	3482.5	3323.7	3172.5	3101.7	3069.2	3055.8
7.5°	4728.2	4494.7	4045.1	3606.9	3268.2	2990.8	2770.7	2606.1	2523.9	2489.4	2476.0
10°	4818.1	4479.4	3832.7	3254.8	2822.4	2535.3	2317.2	2154.6	2064.6	2026.4	2007.2
12.5°	4923.4	4452.6	3587.8	2898.9	2441.6	2154.6	1890.5	1689.6	1586.3	1542.3	1521.2
15°	5053.5	4425.9	3331.4	2564.1	2106.7	1756.6	1467.6	1331.8	1310.7	1303.1	1305.0
17.5°	5181.7	4383.8	3052.0	2233.0	1754.7	1372.0	1224.6	1217.0	1220.8	1220.8	1220.8
20°	5296.5	4288.1	2747.7	1949.8	1419.8	1157.6	1127.0	1113.6	1104.1	1096.4	1086.9
22.5°	5386.4	4159.9	2455.0	1668.5	1159.6	1060.1	1012.2	970.1	935.7	912.7	901.2
25°	5447.7	3989.6	2187.1	1398.7	1042.8	964.4	878.3	807.5	753.9	721.4	708.0
27.5°	5493.6	3805.9	1947.9	1171.0	962.5	853.4	740.5	656.3	600.8	572.1	560.6
30°	5526.1	3597.3	1737.4	1029.4	872.5	736.7	616.1	533.9	493.7	478.4	470.7
32.5°	5556.7	3365.8	1538.4	962.5	788.3	629.5	516.6	453.5	428.6	409.5	403.7
35°	5633.3	3151.5	1349.0	891.7	702.2	537.7	443.9	398.0	373.1	361.6	357.8
37.5°	5815.0	2992.7	1167.2	819.0	616.1	465.0	388.4	355.9	332.9	321.5	317.6
40°	6107.8	2912.3	1014.1	740.5	531.9	409.5	352.1	321.5	296.6	279.4	275.5
42.5°	6538.3	2923.8	907.0	662.1	465.0	365.5	317.6	281.3	254.5	239.2	235.4
45°	7060.7	3008.0	832.4	585.5	409.5	331.0	279.4	241.1	216.2	202.8	199.0
47.5°	7627.1	3143.8	771.1	516.6	365.5	298.5	241.1	200.9	179.9	168.4	166.5
50°	8224.1	3275.9	708.0	449.7	327.2	266.0	202.8	166.5	149.3	139.7	135.9
52.5°	8828.8	3428.9	650.6	388.4	294.7	227.7	168.4	135.9	122.5	114.8	111.0
55°	9479.3	3543.7	595.1	340.6	262.1	193.3	139.7	112.9	101.4	91.8	89.9
57.5°	10244.7	3721.7	537.7	294.7	223.9	160.7	114.8	89.9	80.4	70.8	68.9
60°	11278.0	3930.3	476.5	260.2	183.7	132.0	93.8	72.7	61.2	53.6	51.7
62.5°	12640.4	4161.8	399.9	227.7	149.3	107.2	74.6	57.4	44.0	34.4	34.4
65°	14368.3	4538.8	327.2	191.3	122.5	88.0	57.4	42.1	24.9	15.3	15.3
67.5°	15376.7	4603.8	264.1	156.9	99.5	74.6	47.8	28.7	7.7	1.9	0.0
69°	15053.3	4226.9	223.9	133.9	86.1	70.8	44.0	21.0	3.8	0.0	0.0
70°	14444.8	3865.2	197.1	118.6	78.5	67.0	42.1	15.3	3.8	0.0	0.0
72.5°	11936.2	2751.6	149.3	88.0	57.4	59.3	38.3	9.6	3.8	0.0	0.0
75°	8694.8	1672.4	107.2	61.2	36.4	44.0	26.8	3.8	1.9	0.0	0.0
77.5°	4837.3	788.3	67.0	34.4	23.0	26.8	13.4	0.0	0.0	0.0	0.0
80°	1571.0	214.3	30.6	19.1	13.4	15.3	5.7	0.0	0.0	0.0	0.0
82.5°	290.8	61.2	17.2	9.6	3.8	3.8	0.0	0.0	0.0	0.0	0.0
85°	63.1	24.9	9.6	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.0	7.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)